Science and engineering practices rubric.

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|  | Novice | Basic | Advanced |
| Asking questions | Students are able to ask questions that may be only loosely related to the materials or phenomenon at the center | Students are able to ask a question that can be answered with the available materials. | Students are able to independently ask a clear investigable question that led to an investigation to seek an answer. |
| Planning and Investigating | Students manipulate materials but don’t appear to have an intended purpose to their work. | Students begin an investigation with a general approach that leads them through the investigation. | Students independently develop a clear plan they are able to follow that controls for variables in a way that results in a fair test. |
| Constructing explanations | Students offer a response to their question, but may be lacking in a connection to evidence. | Students construct an explanation in response to their question with a general connection to evidence. Some support may be required. | Students independently assert a claim in response to their question supported with clear connections to evidence captured within their notebook. |